

Q 1

Which enzyme causes the hydrolysis of fats ?

A

Urease

B

Lipase

C

Maltase

D

Protease

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Q 2

The formation of coordination complex compounds formed by transition metals is explained by

A

Ligand field theory

B

crystal field theory

C

molecular orbital theory

D

both A & B

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Q 3

How many isomers of C_4H_{10} are possible?

A

4

B

3

C

2

D

1

2

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Q 4

The product of the nucleophilic addition of aldehyde and ketones is called as _____?

A

Alkanolone

B

Adduct

C

Cyanohydrin

D

Nucleophilic product

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Q 5

The compounds which are formed by the replacement of a hydrogen atom by a halogen is called as___?

A

Alcohol

B

Alkyl halide

C

Carbonyl halide

D

Ethers

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Q 6

A reaction which does not occur in nature are

A

Spontaneous Reactions

B

Exothermic Reactions

C

Endothermic Reactions

D

nonspontaneous Reactions

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Q 7

Why transition metals have strong metallic bonding?

A

Because of high melting point

B

Because d-electrons of outer shell take part in bonding

C

Because s-electrons of outer shell take part in bonding

D

Both s and d electrons takes part in bonding

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Q 8

The second ionization potential of alkali metals are very high due to

A

Being s-block elements

B

Inert gas configurations

C

ns¹ electronic configuration

D

Being metals

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Q 9

In Haber's process the final product ammonia is converted into

A

solid state

B

Liquid state

C

gaseous state

D

None of these

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Q 10

The change in concentration of reactants or products per unit time is

A

rate constant

B

reaction speed

C

Rate of a reaction

D

All of these

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Q 11

Which of the following reaction is used in the preparation of vegetable ghee from oil?

A Hydration

B Sulphonation

C Hydrogenation

D Dehydrogenation

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Q 12 _____ is a macromolecule found in blood

A Hemoglobin

B plasma

C creatinine

D plasmids

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Q 13

If uncertainty in momentum of electron is zero, the uncertainty in its position would be___?

A

Less than zero

B

more than zero

C

one

D

infinite

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Q 14

Which of the following solids shows hydrogen bonding

A

ionic

B

metallic

C

covalent

D

molecular

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Q 15

If elements have high ionization energy value then it means they belong to

A

metals

B

non metals

C

metalloid

D

noble gases

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Q 16

Enzymes are _____ in nature.

A

Proteins

B

Carbohydrates

C

Lipids

D

Nucleic acid

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Q 17

Critical pressure of Argon(Ar) is

A

48 atm

B

33.5atm

C

111.5atm

D

73. atm

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Q 18

PV/nRT for an ideal gas is called

A

expansion factor

B

depression factor

C

compressibility factor

D

diffusion factor

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Q 19

Which one can form complex?

A

Na

B

Cr

C

Li

D

K

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Q 20

As Reaction proceeds the concentration of reactants

A decreases

B Remain unchanged

C increases

D cannot be predicted

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Q 21

The gas is at 3 atm, what will be the pressure of a gas if it expands three times

A

1 atm

B

3atm

C

6atm

D

9atm

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Q 22

Which of the following forces has ability to form clusters and large molecules?

A

Ionic bond

B

Induced dipole forces

C

H-bond

D

All of these

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Q 23

The most common positive ions are formed by the atoms

A

non metals

B

metals

C

noble gases

D

Hydrogen

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Q 24

Which of the following reaction takes place when acetone reacts with HCN ?

A

Electrophilic addition

B

Nucleophilic elimination

C

Nucleophilic addition

D

Electrophilic addition

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Q 25

Why Cr shows $3d^5 4s^1$ configuration instead of $3d^4 4s^2$?

A

Because it is transition element

B

Because it shows different oxidation states

C

Because of extra stability of half filled d^5 system

D

Because it is typical transition element

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Q 26

Which of the following can not be prepared directly from acetic acid ?

A Ethyl acetate

B Acetamide

C Acetyl Halide

D Acetic anhydride

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Q 27

80% of ammonia produced by Haber's process is used in manufacturing

A Explosives

B polymers

C fertilizers

D All of these

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Q 28

The method which is used on industrial scale for production of alcohol from alkene ?

A Hydrohalogenation of alkenes

B Dehydration of alkenes

C Hydration of alkenes

D Hydroxylation of alkenes

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Q 29

Sc is mostly exist in which of the following oxidation state?

A 2

B 1

C 3

D 0

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Q 30

When ethyl alcohol is oxidized with potassium dichromate, which product is formed?

A

Acetic acid

B

Butanoic acid

C

Benzoic acid

D

No reaction takes place

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Q 31

When a nucleophilic reagent attacks on alcohols

A

C - O bond breaks

B

O - H bond breaks

C

increase in acidity

D

Dehydration occurs

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Q 32

During the nomenclature of Alkyl halides, halogens are named as_____?

A

Substituents

B

Parent name

C

Ligand

D

Longest chain

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Q 33

Which of the following are the products of catalytic oxidation of methane?

A $\text{CO}_2, \text{H}_2\text{O}$

B $\text{CO}, \text{H}_2\text{O}$

C CO_2, H_2

D CH_3OH

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Q 34

In diaphragm cell, hydrogen is discharged by the reduction of

A

Water

B

HCl

C

Na⁺

D

NaCl

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Q 35

The energy of photons related to

A frequency

B wave length

C wave number

D all of these

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Q 36

Instantaneous rate of reaction is the rate at any

A

At Equilibrium

B

one instant

C

Given Temperature

D

Given Pressure

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Q 37

Which isomer of hydroxy benzene sulphonic acid is formed in greater ratio when phenol reacts with sulphuric acid at 20 °C?

A

Ortho

B

Para

C

Both ortho and para in equal ratio

D

ortho-para product

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Q 38

What is the Optimum temperature for working of enzyme in human body?

A

40°C

B

35°C

C

37°C

D

32°C

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Q 39

Density of ice is_____?

A

Higher than water

B

Lower than water

C

Similar to water

D

Higher the $1.59/\text{cm}^3$

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Q 40

The statement; energy of system and surrounding is conserved, is related to which law of thermodynamic?

A

1st law

B

2nd law

C

3rd law

D

None of these

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Q 41

Which of the following product is formed when aldol product is heated?

A Rearrangement

B Dehydration

C Decomposition

D All of these

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Q 42

Which of the following is an Isomorph of Copper

A

Zn

B

Cd

C

Ag

D

Mn

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Q 43

The Extension of structure in a crystalline solid is not

A

Regular

B

Geometrical

C

Three-Dimensional

D

None of these.

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Q 44

Globulins protein upon hydrolysis yield amino acids or their derivatives, so they belong to which type of protein

A Derived proteins

B Compound proteins

C Conjugated proteins

D Simple proteins

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Q 45

Which of the following has least polarizability ?

A

NH_3

B

H_2O

C

HF

D

CH_4

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Q 46

Standard Electrode Potential for Hydrogen is taken as

A

Standard

B

Zero Volts

C

Unity

D

Both A and B

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Q 47

$\text{S}_{\text{N}}1$ reaction is a _____?

A

Multistep reaction

B

Two step reaction

C

Concerted reaction

D

3 step reaction

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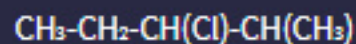
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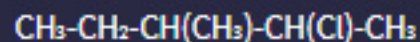
Q 48

Which one of the following is the correct IUPAC name of 2-Chloro,3-methylpentane ?

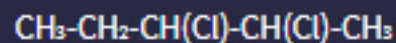
A



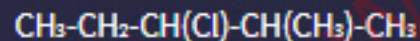
B



C



D



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Q 49

The mole fractions of a gas multiplied by the total pressure of the mixture is called __ of a gas

A partial volume

B partial pressure

C partial temperature

D number of moles

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Q 50

The bond b/w the two atoms is non polar ,if the E.N difference is

A

1.7

B

zero

C

1

D

2

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Q 51

Isoelectronic species have same

A

electronic configuration

B

Ionic size

C

Reactivity

D

PH

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Q 52

Hydrolysis of Tertiary Butyl bromide gives

A

Carboxylic Acid

B

Alcohol

C

Aldehyde

D

Ketone

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Q 53

Which catalyst is used when ethanol react with ammonia to produce ethyl amine?

A

ZnCl_2

B

$\text{C}_6\text{H}_5\text{N}$

C

Al_2O_3

D

ThO_2

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Q 54

Phosphoglyceromutases are example of:

A

Lyases

B

Hydrolases

C

Ligases

D

Transferases

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Q 55

urea belong to which class of compound

A

imides

B

amides

C

amines

D

carboxylic acid

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Q 56

When are the prefixes ortho, para, and meta used?

A

In alkynes to identify the position of triple bond

B

In arenes to identify the position first substitution

C

In arenes to identify the position second substitution

D

In all hydrocarbons to identify the position functional group

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Q 57

The highly complex duct system in male is called:

A

Scrotum

B

seminiferous tubules

C

Prepuce

D

Epididymis

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Q 58

Which factors affect the female reproductive cycle?

A

Malnourishment

B

emotional stress

C

Both A and B

D

None of these

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Q 59

For a single gene trait, a number of genetic disorders are caused when an individual inherits ?

A two dominant alleles

B one dominant allele

C one recessive allele

D two recessive alleles

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Q 60

A chemical component that is NOT found in all viruses is:

A

protein

B

Lipids

C

DNA

D

RNA

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Q 61

What is the most important structure between body and brain?

A

Neck

B

Spinal cord

C

Blood vessels

D

Skeleton

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Q 62

Centipedes belong to class _____ of arthropoda.

A

Arachnida

B

Insecta

C

Cephalopoda

D

Myriapoda

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Q 63

The shape of gray matter is:

A

Spherical

B

Butterfly

C

Mosquito

D

Rectangular

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Q 64

Which Of the following is not the characteristic of mitochondria?

A

It contains F1 particles

B

It is involved in the synthesis of protein

C

It is a self replicating organelle

D

Number of mitochondria is constant

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Q 65

In mixed inhibition, the inhibitor binds on the enzyme ?

A

allosterically

B

active site

C

doesn't bind on the enzyme

D

binds on the substrate

64

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Q 66

In non-competitive inhibition, the quantity which remains same as the reaction proceed is?

A

V_{max}

B

K_m

C

K_o

D

V_o

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Q 67

Lack of symmetry is identified in which group of animals?

A

Protozoa

B

Porozoa

C

Parazoa

D

Coelomates

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Q 68

The division of cocci in three planes results in formation of a

A

tetrad

B

sarcina

C

grape like clusters

D

All of Above

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Q 69

Bottlenecks increases the affect of which of the following?

A

genetic linkage

B

genetic expression

C

genetic diversity

D

gene pool

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Q 69

Bottlenecks increases the affect of which of the following?

A

genetic linkage

B

genetic expression

C

genetic diversity

D

gene pool

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Q 70

The first actin spectrum was obtained by?

A

T.W.Engelmann

B

Malleus

C

T W Inws

D

W Stapes

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Q 71

First Actions spectrum was obtained by using?

A

Algae

B

Fungi

C

Bacteria

D

Spirogyra

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Q 72

Which of the following is true of troponin and tropomyosin?

A

Troponin binds to myosin and tropomyosin binds to actin

B

Tropomyosin binds to actin and prevents the myosin head from binding to actin

C

both a and b

D

none of these

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Q 73

A chromosome in which a centromere stays at one end is called?

A metacentric

B telocentric

C acrocentric

D all of these

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Q 75

Which of the following is NOT a function of Smooth Endoplasmic Reticulum (SER)?

- A Synthesis of steroid hormones from cholesterol.
- B Detoxification of harmful drugs.
- C Synthesis of phospholipids for plasma membrane.
- D Synthesis of membrane proteins.

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Q 76

Which one forms the raw material for coenzymes?

A vitamins

B carbohydrates

C lipids

D proteins

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Q 77

Which of the following is a water soluble vitamin?

A riboflavin

B vitamin c

C niacin

D all of these

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Q 78

Which statement correctly describes the alimentary canal of hydra?

A The alimentary canal is formed from the endodermal cells.

B The alimentary canal has a single opening.

C The alimentary canal is sac-like.

D All of the above.

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Q 79

which cells regulate the opening and closing of the stroma?

A

neutrophil cells

B

basophil cells

C

mesophyll cells

D

guard cells

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Q 80

What is the role of the sarcoplasmic reticulum prior to a muscle contraction?

A

It actively pumps calcium ions into its lumen

B

It releases calcium ions by active transport

C

It creates the proteins needed to cover the actin filaments

D

It releases calcium once an action potential reaches the sarcolemma

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Q 81

The clear fluid present in the anterior chamber is called?

A

optic humor

B

spot humor

C

vitreous humor

D

aqueous humor

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Q 82

Skeletal muscles are:

A

voluntary

B

Involuntary

C

Both A and B

D

None of these

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Q 83

Molecular formula of chlorophyll a is?

A

$C_{55}H_{10}O_4N_6Mg$

B

$C_{55}H_{70}O_6N_5Mg$

C

$C_{55}H_{71}O_6N_4Mg$

D

$C_{55}H_{72}O_5N_4Mg$

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Q 84

In nature, Garden pea is which of the following?

A

Cross fertilized

B

Cross pollinated

C

Self-fertilized

D

none of these

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Q 85

Another name for the sex cell is:

A

hormone

B

gamete

C

zygote

D

testicle

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Q 86

During aristotle time, it was thought that

A

oranism ranged from simple to complex

B

one type of organisim give rise to another type of organism

C

both a & b

D

all living things specially created by nature

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Q 87

Where does the ovum receive the sperm?

A animal pole

B vegetal pole

C both a and b

D none of these

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Q 88

actin and myosin are the basic proteins involved in contractile machinery of our body to which type of proteins do they belong?

- A Globular
- B Functional
- C Fibrous
- D both a and b

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Q 89

A man with type A- blood and a woman with type AB+ blood have a child. Which blood type is impossible for that child to have?

A

A-

B

B-

C

AB+

D

O-

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Q 90

The organs of locomotion in annelids are which of the following?

A

Muscles

B

Hydrostatic skeleton

C

Parapodia

D

Setae

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Q 91

Water vapor exits and CO₂ enters a leaf through the

A

stomata

B

grana

C

porphyrin ring

D

photons

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Q 92

A cell without a cell wall is termed as?

A tonoplast

B protoplast

C symplast

D epiblast

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Q 93

The most common waste material produced by bacteria is?

A lactic acid

B urea

C ammonia

D uric acid

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Q 94

Fluid is secreted by how many three sets of glands which combine with the sperm to form:

A Interstitial fluid

B Semen

C amniotic fluid

D Both A and B

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Q 95

The Venus flower basket is also known as which of the following?

A

Sycon

B

Leucosolenia

C

Spongilla

D

Euplectella

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Q 96

The Induced fit model was introduced by Koshland in which of the following year?

A

1960

B

1961

C

1959

D

1966

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Q 97

Which of the following scientists hypothesized that organisms can pass down traits acquired during their lifetimes?

A Lamark

B Darwin

C Mendel

D Linnaeus

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Q 98

Which of the following statements correctly describes the tobacco mosaic virus (TMV)?

A RNA virus

B DNA Virus

C Bacteriophage

D DSDNA Virus

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Q 99

Which structure of protein gives information about number and sequence of amino acids in it?

A primary structure

B secondary structure

C tertiary structure

D quaternary structure

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Q 100

When was the Tobacco mosaic virus successfully crystalized?

A

1935

B

1930

C

1932

D

1920

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Q 101

Which of the following molecule facilitate the entry of HIV in human body

A Glycoprotein

B Liposomes

C polysaccharides

D lipopolysaccharides

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Q 102

What is the most common fuel of energy for cells?

A

Protein

B

lipid

C

carbohydrate

D

none of these

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Q 103

Which organism would be considered the most biologically fit?

A Lives 45 years and produces 3 offspring

B Lives 70 years and produces no offspring

C Lives 27 years and produces 1 offspring

D Lives 36 years and produces 6 offspring

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Q 104

Myosin filaments are close to how many times thick as actin filament?

A

3 times

B

6 times

C

4 times

D

8 times

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Q 105

In human only one ovum is usually discharged from the ovary at one time this phenomenon is called?

A

ovulation

B

menstruation

C

oestrous

D

all of these

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Q 106

The ultimate source of all the change is?

A migration

B mutation

C genetic drift

D selection

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Q 107

The oldest mineral discovered so far is which of the following, which dates back to 4.4 billion years.

A iron

B zircon

C diamond

D cadmium

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Q 108

Which of the following is not a true characteristic of gametocytes?

A

Male gametocytes are called spermatocytes

B

Gametocytes can divide by mitosis into other gametocytes

C

Female gametocytes are called oocytes

D

They are eukaryotic somatic cells

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Q 109

Out of the 6 molecules of G3P, how many molecules are used to make glucose?

A

1

B

2

C

3

D

6

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Q 110

The last common ancestor of humans is known to be which of the following?

A

Homo neanderthalensis

B

Lemuroidea

C

Dromaeosaurus

D

Pan troglodytes

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Q 111

Porphyromonas gingivalis is a Gram-negative bacterium, found in the oral cavity, is negatively affected by the presence of oxygen. What term best describes this bacteria?

A Facultative anaerobe

B Aerotolerant anaerobe

C Obligate aerobe

D Obligate anaerobe

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Q 112

The process of inspiration occurs as:

A

Lungs pull air inside

B

Passive transport of air takes place

C

Passive expansion of air takes place

D

Air is pushed inside

111

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Q 113

When a female ovulates, in what phase of division is the oocyte?

A Anaphase I

B Prophase I

C Metaphase I

D Metaphase II

112

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Q 114

The replication of the HIV virus nucleic acid depends on?

A replicase

B reverse transcriptase

C transcriptase

D reverse replicase

113

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Next Question 

Q 115

The optimum pH for the functioning of pancreatic lipase is?

A

8

B

9

C

7

D

6

114

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Q 116

A compound produced as a result of a chemical reaction of an alcohol with an acid in which water molecule is released is called?

A monosaccharide

B fatty acid

C nucleic acid

D neutral lipid

115

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Q 117

Enzymes are globular proteins because:

A They have a primary structure.

B They have a secondary structure.

C They have a tertiary structure.

D All of the above.

116

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Q 118

The haploid number of chromosomes in the human eggs and sperms are?

A

22

B

23

C

21

D

24

117

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Q 119

Which brain part is responsible for the formation of long term memory?

A

Medulla

B

Thalamus

C

Hippocampus

D

Corpus callosum

118

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Q 120

The bronchitis is of types?

A

2

B

3

C

4

D

5

119

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Q 121

Photosynthesis is process in which _____ compounds of carbon and hydrogen are reduced to carbohydrate like (glucose) using light energy.

A Organic

B Energy poor

C energy rich

D Reduced

120

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Q 122

Absciscic acid promotes flowering in short day plants and inhibits in long day plants, which of the following is antagonistic to abscisic acid in terms of flowering?

A gibberellins

B cytokinins

C auxins

D ethene

121

SKIPPED QUESTIONS 

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Q 123

Which of the following is synthesized by free floating ribosomes of cytoplasm in humans?

A DNA polymerase

B salivary amylase

C pancreatic amylase

D DNA helicase

122

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Next Question 

Q 124

If muscle contracts upon stimulation, calcium ions bind to _____, which exposes the binding sites for the myosin cross-bridges to attach to.

A actin

B myosin

C troponin

D sarcomere

123

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Q 125

Watt-hour measures_____

A

current

B

electrical energy

C

power

D

voltage

124

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Next Question 

Q 126

Non-inverting amplifier circuits have

A A very high input impedance

B A very low input impedance

C A low output impedance

D None of the above

125

SKIPPED QUESTIONS 

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Q 127

An object is travelling in a circle at constant speed. Its angular velocity is:

A changing

B the same

C increasing

D decreasing

126

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Next Question 

Q 128

Isotopes means addition of additional _____ in same proton number

A protons

B electrons

C neutrons

D all of them

127

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Next Question 

Q 129

Specific heat of water is

A

1J/K.g

B

4.18 J/Kg.K

C

4180 J/kg.K

D

2090 J/kg.K

128

SKIPPED QUESTIONS 

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Next Question 

Q 130

The phenomenon of polarization of light reveals that light waves are:....

A transverse waves

B longitudinal waves

C mechanical waves

D none of these

129

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Q 131

If the direction of the field and area vector is opposite then field is

A positive

B zero

C negative

D none of these

130

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Q 132

If two point charges of charge q_1 and q_2 are placed at distance d . The force between them is proportional to:...

A d

B d^2

C $\frac{1}{d}$

D $\frac{1}{d^2}$

131

SKIPPED QUESTIONS 

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Q 133

When total work done on a particle is positive then

A KE remain constant

B momentum increases

C KE decreases

D all of these

132

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Q 134

1 rutherford is equal to

A

10^4 Bq

B

10^6 Bq

C

10^7 Bq

D

10^5 Bq

133

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Next Question 

Q 135

_____ relationship exists between current and voltage in terms of Ohm's law

A

Non linear

B

Varying

C

Linear

D

None of them

134

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Q 136

For a 1 efficient step down transformer

A voltage in primary and secondary are equal

B current in primary and secondary are equal

C input power is same as the output power

D output power is zero

135

SKIPPED QUESTIONS 

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Q 137

A horizontal line in displacement-time graph represents:...

A uniform accelerated motion

B motion with constant velocity

C motion with constant speed

D body at rest

136

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Q 138

What does the constant n represent in the equation of state for an ideal gas $PV=nRT$?

A number of atoms in the gas

B number of moles of the gas

C number of nucleons

D number of molecules of gas

137

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Q 139

The oscillating object overshoots the rest position due to:

A

restoring force

B

inertia

C

gravitational potential energy

D

elastic potential energy

138

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Q 140

Which among the following phenomenon shows particle nature of light?

A

Photoelectric effect

B

Interference

C

Polarization

D

Matter waves

139

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Q 141

A car accelerates from 0 to 72 km/h in 5 seconds. If it has wheels of diameter 50 cm. the angular acceleration of its wheels is

A 1.6 rad/s^2

B 8 rad/s^2

C 16 rad/s^2

D 160 rad/s^2

140

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Next Question 

Q 142

The phenomenon of radioactivity is

A

Nuclear process does not depend on external factors

B

increased on applied pressure

C

exothermic change which increase and decrease with temperature

D

none of these

141

SKIPPED QUESTIONS 

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Next Question 

Q 143

When the amount of work done is 33 cal and internal energy is 167 cal then heat supplied is

A 167 cal

B 175 cal

C 500 cal

D 600 cal

142

SKIPPED QUESTIONS 

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Next Question 

Q 144

A transformer steps down from 200V to 50 V. It has secondary winding = 40 turns, then windings in primary coil are

A 150

B 160

C 170

D 200

143

SKIPPED QUESTIONS 

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Q 145

The tires on a bicycle have a diameter of 24 inches. If the tires are turning at a rate of 50 revolutions per minute, determine the bicycle's speed in miles per hour (mph).

A 3.1

B 6.3

C 3.9

D 3.6

144

SKIPPED QUESTIONS 

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Q 146

Some ice, at its melting point, is added to m kg of water at initial temperature 290 K. If c is the specific heat capacity of water and L is latent heat of fusion of ice. Ice melts completely. Final temperature of the water is 273 K. What is the minimum mass of ice that is required?

A $17mc \text{ ----- } L$

B $L \text{ ----- } 17mc$

C $17m \text{ ----- } Lc$

D $290m \text{ ----- } Lc$

145

SKIPPED QUESTIONS 

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Q 147

Which of the following statement is correct about infrared radiation and X-rays?

A

Radio waves has frequency larger than X-rays but less than infrared waves

B

infrared radiation travels faster than X-rays in vacuum

C

infrared radiation has lower frequency than X-rays

D

infrared waves can not be diffracted like X-rays

146

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Q 148

A constant force of 10 N is applied on a body which causes displacement of 12 cm what will be the work done

A 120 J

B 12 J

C 1.2 J

D 18 J

147

SKIPPED QUESTIONS 

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Next Question 

Q 149

Specific latent heat of fusion of ice is 334 J/g. How much energy is needed to melt 100 g of ice at 0°C.

A 33.4 J

B 33.4 kJ

C 3.34 J

D 3.34 kJ

148

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Q 150

Self inductance varies number of turns in coil as

A N

B N^3

C N^2

D $1/N$

149

SKIPPED QUESTIONS 

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Next Question 

Q 151

The magnetic field is parallel to a surface, then the magnetic flux through the surface is

A

Zero

B

small but not zero

C

infinite

D

large but not infinite

150

SKIPPED QUESTIONS 

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Next Question 

Q 152

Polarization explains light is

A

electric in nature

B

magnetic in nature

C

both a & B

D

none of these

151

SKIPPED QUESTIONS 

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Next Question 

Q 153

A thermodynamic system undergoes a process in which its internal energy decreases by 300 J. If at the same time 120 J of work is done on the system, find the heat lost by the system

A -420 J

B 420 J

C 80 J

D -80 J

152

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Q 154

Which radiation passes through black body

A

alpha

B

gamma

C

beta

D

white

153

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Next Question 

Q 155

When a wave comes across the boundary of two media, a part of it is reflected back. Which statement is true about reflected wave:

- A its wavelength changes depending on the nature of the boundary
- B its frequency changes depending on the nature of the boundary
- C its amplitude increases depending on the nature of the boundary
- D its phase may changes depending on the nature of the boundary

154

SKIPPED QUESTIONS 

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Next Question 

Q 156

What is the FPS unit of displacement

A

kilometer

B

meter

C

Foot

D

pound

155

SKIPPED QUESTIONS 

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Next Question 

Q 157

A set of Atoms in an excited state decays

A in any general state with lower energy

B In any state when excited by electric field

C In any state when excited by magnetic field

D None of these

156

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Q 158

Which isotope has highest momentum when moving with same velocity

A

Protium

B

deuterium

C

tritium

D

all of these have same momentum

157

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Q 159

Work is done by the applying force when

A

applied force is variable

B

applied force is perpendicular to the motion

C

applied force generated motion

D

applied force is constant

158

SKIPPED QUESTIONS 

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Q 160

A steel ball of mass 5 g is thrown downward with velocity 10 m/s from height 19.5m. It penetrates sand by 50 cm. The change in mechanical energy will be: ($g = 10 \text{ m/s}^2$)

A 1J

B 1.25J

C 1.5J

D 1.75J

159

SKIPPED QUESTIONS 

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Next Question 

Q 161

Electrical power of a battery is defined as the rate of

A electrical energy consumed by the battery

B Electrical energy transferred by the battery

C both

D none of these

160

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Next Question 

Q 162

Farad is defined as:....

A newton / volt

B coulomb / volt

C coulomb / joule

D coulomb / newton

161

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Next Question 

Q 163

Centre tape rectifier circuit consists of _____ diode

A

1

B

200%

C

300%

D

400%

162

SKIPPED QUESTIONS 

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Next Question 

Q 164

7 Radian is equal to ____ degree approximately

A

300

B

400

C

500

D

none of these

163

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Next Question 

Q 165

Newton's first law applicable only in

A

accelerating frames

B

inertial frame

C

both a) and b)

D

non-inertial frames

164

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Q 166

The terminal potential difference of a battery is greater than its emf when

A

The internal resistance of a battery is infinite

B

The internal resistance of a battery is zero

C

The battery is charged

D

The battery is discharged

165

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Q 167

Mean life of a radioactive element is 1 year. Then its half life (in years) is.....

A

0.8

B

1

C

0.693

D

0.5

166

SKIPPED QUESTIONS 

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Q 168

Which of the following rectifier uses wheatstone bridge to rectify signal

A half wave

B full wave

C bridge

D All of the above

167

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Next Question 

Q 169

For ideal polyatomic gas molar specific heat is equal to

A 24.9 J/mol.K

B 12.9 J/mol.K

C 15 J/mol.K

D 16 J/mol.K

168

SKIPPED QUESTIONS 

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Next Question 

Q 170

If $^{238}_{94}\text{Pu}$ decay an alpha particle the new atomic number and mass number are

A 234,90

B 234,92

C 231,97

D none of these

169

SKIPPED QUESTIONS 

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Next Question 

Q 171

A real transformer does not change

A voltage level

B current level

C power level

D frequency level

170

SKIPPED QUESTIONS 

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Next Question 

Q 172

What is the power of a bulb if it is operated at 220V and the current in the circuit is 1.5 Amp

A 330 watt

B 430 watt

C 530 watt

D 500 watt

171

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Q 173

A galvanometer acting as a voltmeter will have a coil with

A a high resistance in parallel

B a high resistance in series

C a low resistance in parallel

D a low resistance in series

172

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Q 174

The units for absorption power is

A

meter

B

second

C

henry

D

none of these

173

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Next Question 

Q 175

The charge on gamma rays is

A

1+

B

1-

C

0

D

none of these

174

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Q 176

instantaneous velocity for a displacement function $d(t) = 2 - 2t$ at any time is given by

A $-2t$

B $2t$

C 2

D -2

175

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Q 177

A container is filled with oxygen and helium at the same temperature. The molar mass of oxygen is 32 g/mol and that of helium is 4 g/mol. What is the ratio: average speed of oxygen molecules -----
----- average speed of helium molecules

A $1 \text{ --- } \sqrt{8}$

B $\sqrt{8}$

C $1 \text{ --- } 8$

D 8

176

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Q 178

A monoenergetic electron beam with an electron speed of $5.20 \times 10^6 \text{ m/s}$ is subject to a magnetic field of $1.30 \times 10^{-4} \text{ T}$ normal to the beam velocity. What is the radius of the circle traced by the beam, given e/m for electron equals $1.76 \times 10^{11} \text{ C/kg}$

A 22.7 cm

B 21.3 cm

C 20 cm

D 21.9 cm

177

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Q 179

A cyclist come to skidding stop in 10 m, the force on the cycle due to the road is 200 N and opposite to the motion. how much work does the cycle do on the road

A 2000 J

B -2000 J

C 0

D 200 J

178

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Q 180

A stationary wave is formed in a pipe which is open at both ends. If length of pipe is 10 cm, then what is the maximum possible wavelength of the wave.

A 20 cm

B 5 cm

C 10 cm

D 30 cm

179

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Q 181

It is the duty of every citizen (A) to do his utmost (B) to defend the hardly won (C) /freedom of the country.
(D)

A

It is the duty of every citizen

B

to do his utmost

C

to defend the hardly won

D

freedom of the country.

180

SKIPPED QUESTIONS 

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Next Question 

Q 182

I _____ English since my childhood.

A

study

B

am studying

C

have been studying

D

studied

181

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Q 183

Choose the correct sentence.

A Why can't I speak to Ms. Parvin today!

B Why can't I speak to Ms. Parvin today?

C Why cant I speak to Ms. Parvin today?

D Why can't i speak to Ms. Parvin today?

182

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Q 184

Did you _____ this pen?

A

break

B

broke

C

broken

D

breaking

183

SKIPPED QUESTIONS 

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Next Question 

Q 185

How we _____ to ageing is a choice we must make wisely.

A respond

B absolve

C discharge

D overlook

184

SKIPPED QUESTIONS 

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Next Question 

Q 186

I borrowed ____ pencil from your pile of pencils and pens.

A

a

B

an

C

the

D

no article

185

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Q 187

quiver

A

tremble

B

move

C

tremendous

D

pacify

186

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Q 188

Your hands and feet _____ nearly half the bones in your body.

A contained

B contains

C contain

D containing

187

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Next Question 

Q 189

You will find more information in the _____.

A

attached to file

B

attached file

C

attachment file

D

file what is attached

188

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Next Question 

Q 190

Choose the correct sentence.

A

Charles Dickens wrote 'A Tale of Two Cities', 'Little Dorrit', 'A Christmas Carol' and 'Bleak House' amongst others.

B

Charles dickens wrote 'A Tale of Two Cities', 'Little Dorrit', 'A Christmas Carol' and 'Bleak House' amongst others.

C

Charles Dickens wrote 'A Tale of two cities', 'Little dorrit', 'A Christmas Carol' and 'Bleak House' amongst others.

D

Charles Dickens wrote 'A Tale of Two Cities' 'Little Dorrit' 'A Christmas Carol' and 'Bleak House' amongst others.

189

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Q 190

Choose the correct sentence.

A

Charles Dickens wrote 'A Tale of Two Cities', 'Little Dorrit', 'A Christmas Carol' and 'Bleak House' amongst others.

B

Charles dickens wrote 'A Tale of Two Cities', 'Little Dorrit', 'A Christmas Carol' and 'Bleak House' amongst others.

C

Charles Dickens wrote 'A Tale of two cities', 'Little dorrit', 'A Christmas Carol' and 'Bleak House' amongst others.

D

Charles Dickens wrote 'A Tale of Two Cities' 'Little Dorrit' 'A Christmas Carol' and 'Bleak House' amongst others.

189

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Download with IDM



Q 191

dunce

A

block headed

B

smart

C

wise

D

agile

190

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Next Question >

Q 192

My friend has been living _____ Karachi for two years.

A on

B at

C in

D across

191

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Q 193

Choose the correct spelling of the word

A

nite

B

nigt

C

nighte

D

night

192

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Q 194

He could not sleep because he was _____ (bite) by mosquitoes.

A bit

B bite

C bitten

D biting

193

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Next Question >

Q 195

Choose the correct sentence.

A

Our head teacher is called mrs Amjad.

B

Our head teacher is called Mrs. Amjad.

C

Our head teacher is called Mrs Amjad.

D

Our head teacher is called Mrs. Amjad!

194

SKIPPED QUESTIONS

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Next Question >

Q 196

How much does she make on her job? - That's none of your _____!

A business

B decision

C information

D role

195

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Q 197

While climbing onto the mountain top, I _____ (encounter) a strange animal which I'd never seen before.

A encounter

B encountered

C will encounter

D encountering

196

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Q 198

A pair of trousers ____ all that I brought along

A were

B are

C would be

D is

197

SKIPPED QUESTIONS

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Next Question >

Q 199

What do you usually have for _____ breakfast?

A a

B an

C the

D no article

198

SKIPPED QUESTIONS

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Next Question >

Q 200

Our car broke down; so we came last.

A complex

B simple

C compound

D compound-complex

199

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Q 201

Statement The ratio is poverty is at alarming point in our country. I. The Government needs to take step for economic and development growth. II. The lower class area of people in our country needs to be supported as most of them lives hand to mouth.

A Both of them follows

B None of them follows

C Only I follows

D Only b follows

200

SKIPPED QUESTIONS

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Q 202

Fact1 All drink mixes are beverages Fact 2 All beverages are drinkable Fact 3 All beverages are red If the above three statements are facts than which of the following statement will also be a fact I. Some drink mixes are red II. All beverages are drink mixes. III. All red drink mixes are drinkable

A I only

B II only

C III only

D None of them is a fact

201

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Q 203

23rd letter of English alphabets is

A

X

B

W

C

Z

D

Y

202

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Q 204

Statements The government has decided to roll back the hike in the prices of cooking gas and kerosene. Some ministers had resigned in protest against the hike in prices of cooking gas and other petroleum products.

- A I is cause and II is effect
- B II is cause and I is effect
- C Both are independent causes
- D both are effects of independent causes

203

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Q 205

I. Punjab Board has announced the results of class 12. II. A candidate committed suicide after checking his results in class 12.

A

Statement I is the cause and statement II is its effect.

B

Statement II is the cause and statement I is its effect.

C

Both statements I and II are independent causes

D

Both statements I and II are the effects of independent cause.

204

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Q 206

If the value of B= 16 E=64, K=256, then O=?

A

526

B

1024

C

834

D

1012

205

SKIPPED QUESTIONS



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Next Question >

Q 207

Statement The availability of imported fruits has increased in the indigenous market and so the demand for indigenous fruits has been decreased. I. To help the indigenous producers of fruits, the Government should impose high import duty on these fruits, even if these are not of good quality. II. The fruit vendors should stop selling imported fruits. So that the demand for indigenous fruits would be increased.

A Both of them follows

B None of them follows

C Only I follows

D Only II follows

206

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Q 208

What is the multiplicative inverse of $\frac{1}{2}$?

A

-2

B

2

C

 $-\frac{1}{2}$

D

Both A and B

207

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Next Question >

Q 209

Statement The availability of imported fruits has increased in the indigenous market and so the demand for indigenous fruits has been decreased. I. To help the indigenous producers of fruits, the Government should impose high import duty on these fruits, even if these are not of good quality. II. The fruit vendors should stop selling imported fruits. So that the demand for indigenous fruits would be increased.

A both of them follows

B None of them follows

C Only I follows

D Only II follows

208

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Q 210

Four friends in the fifth grade were sharing a pizza. They decided that the oldest friend would get the extra piece. Zara is two months older than Mohib, who is three months younger than kiran. Minal is one month older than Mohib. Who should get the extra piece of pizza?

A Zara

B Mohib

C Kiran

D Minal

209

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Submit



Q1

The formation of coordination complex compounds formed by transition metals is explained by

A

Ligand field theory

B

crystal field theory

C

molecular orbital theory

D

both A & B

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Question 2/210

Q2

Which of the following forces has ability to form clusters and large molecules?

A

Ionic bond

B

Induced dipole forces

C

H-bond

D

All of these

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Question 3/210

Q3

The last common ancestor of humans is known to be which of the following?

A

Homo neanderthalensis

B

Lemuroidea

C

Dromaeosaurus

D

Pan troglodytes

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Question 4/210

Q4

While climbing onto the mountain top, I _____ (encounter) a strange animal which I'd never seen before.

A

encounter

B

encountered

C

will encounter

D

encountering

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Question 5/210

Q5 A pair of trousers ____ all that I brought along

A were

B are

C would be

D is

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Question 6/210

Q6

What do you usually have for _____ breakfast?

A

a

B

an

C

the

D

no article

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Question 7/210

Q7

Our car broke down; so we came last.

A

complex

B

simple

C

compound

D

compound-complex

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Q8

Statement The ratio is poverty is at alarming point in our country. I. The Government needs to take step for economic and development growth. II. The lower class area of people in our country needs to be supported as most of them lives hand to mouth.

A

Both of them follows

B

None of them follows

C

Only I follows

D

Only b follows



Q9

Fact1 All drink mixes are beverages Fact 2 All beverages are drinkable Fact 3 All beverages are red If the above three statements are facts than which of the following statement will also be a fact I. Some drink mixes are red II. All beverages are drink mixes. III. All red drink mixes are drinkable

A

I only

B

II only

C

III only

D

None of them is a fact



Q10

23rd letter of English alphabets is

A

X

B

W

C

Z

D

Y

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Q11

Statements The government has decided to roll back the hike in the prices of cooking gas and kerosene. Some ministers had resigned in protest against the hike in prices of cooking gas and other petroleum products.

A

I is cause and II is effect

B

II is cause and I is effect

C

Both are independent causes

D

both are effects of independent causes



Q12

I. Punjab Board has announced the results of class 12. II. A candidate committed suicide after checking his results in class 12.

A

Statement I is the cause and statement II is its effect.

B

Statement II is the cause and statement I is its effect.

C

Both statements I and II are independent causes

D

Both statements I and II are the effects of independent cause.



Q13

If the value of $B=16$ $E=64$, $K=256$, then $O=?$

A

526

B

1024

C

834

D

1012

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Q14

Statement The availability of imported fruits has increased in the indigenous market and so the demand for indigenous fruits has been decreased. I. To help the indigenous producers of fruits, the Government should impose high import duty on these fruits, even if these are not of good quality. II. The fruit vendors should stop selling imported fruits. So that the demand for indigenous fruits would be increased.

A

Both of them follows

B

None of them follows

C

Only I follows

D

Only II follows



Question 15/210

Q15

What is the multiplicative inverse of $\frac{1}{2}$?

A

-2

B

2

C

$-\frac{1}{2}$

D

Both A and B

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Q16

Statement The availability of imported fruits has increased in the indigenous market and so the demand for indigenous fruits has been decreased. I. To help the indigenous producers of fruits, the Government should impose high import duty on these fruits, even if these are not of good quality. II. The fruit vendors should stop selling imported fruits. So that the demand for indigenous fruits would be increased.

A

both of them follows

B

None of them follows

C

Only I follows

D

Only II follows



Q17

Four friends in the fifth grade were sharing a pizza. They decided that the oldest friend would get the extra piece. Zara is two months older than Mohib, who is three months younger than kiran. Minal is one month older than Mohib. Who should get the extra piece of pizza?

A

Zara

B

Mohib

C

Kiran

D

Minal



Q18

How many isomers of C_4H_{10} are possible?

A

4

B

3

C

2

D

1

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Question 19/210

Q19

Which enzyme causes the hydrolysis of fats ?

A

Urease

B

Lipase

C

Maltase

D

Protease

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Question 20/210

Q20

Globulins protein upon hydrolysis yield amino acids or their derivatives, so they belong to which type of protein

A

Derived proteins

B

Compound proteins

C

Conjugated proteins

D

Simple proteins

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Q21

Bottlenecks increases the affect of which of the following?

A

genetic linkage

B

genetic expression

C

genetic diversity

D

gene pool

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Q22

During aristotle time, it was thought that

A

oranism ranged from simple to complex

B

one type of organisim give rise to another type of organism

C

both a & b

D

all living things specially created by nature

[< Previous Question](#)[Next Question >](#)



Question 23/210

Q23

Fluid is secreted by how many three sets of glands which combine with the sperm to form:

A

Interstitial fluid

B

Semen

C

amniotic fluid

D

Both A and B

[← Previous Question](#)

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Q24

Which organism would be considered the most biologically fit?

A

Lives 45 years and produces 3 offspring

B

Lives 70 years and produces no offspring

C

Lives 27 years and produces 1 offspring

D

Lives 36 years and produces 6 offspring

[< Previous Question](#)[Next Question >](#)



Q25

I _____ English since my childhood.

A

study

B

am studying

C

have been studying

D

studied

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Question 26/210

Q26

dunce

A

block headed

B

smart

C

wise

D

agile

[← Previous Question](#)

[Next Question →](#)



Question 27/210

Q27

The most common waste material produced by bacteria is?

A

lactic acid

B

urea

C

ammonia

D

uric acid

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Q28

The product of the nucleophilic addition of aldehyde and ketones is called as _____?

A

Alkanolone

B

Adduct

C

Cyanohydrin

D

Nucleophilic product

◀ Previous Question

Next Question ▶



Q29

The compounds which are formed by the replacement of a hydrogen atom by a halogen is called as ___?

A

Alcohol

B

Alkyl halide

C

Carbonyl halide

D

Ethers

[< Previous Question](#)[Next Question >](#)



Q30

A reaction which does not occur in nature are

A

Spontaneous Reactions

B

Exothermic Reactions

C

Endothermic Reactions

D

nonspontaneous Reactions

[< Previous Question](#)[Next Question >](#)



Q31

Why transition metals have strong metallic bonding?

A

Because of high melting point

B

Because d-electrons of outer shell take part in bonding

C

Because s-electrons of outer shell take part in bonding

D

Both s and d electrons takes part in bonding



Q32

The second ionization potential of alkali metals are very high due to

A

Being s-block elements

B

Inert gas configurations

C

ns1 electronic configuration

D

Being metals

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Q33

In Haber's process the final product ammonia is converted into

A

solid state

B

Liquid state

C

gaseous state

D

None of these

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Q34

The change in concentration of reactants or products per unit time is

A

rate constant

B

reaction speed

C

Rate of a reaction

D

All of these

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Q35

Which of the following reaction is used in the preparation of vegetable ghee from oil?

A

Hydration

B

Sulphonation

C

Hydrogenation

D

Dehydrogenation

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Q36

If uncertainty in momentum of electron is zero, the uncertainty in its position would be ___?

A

Less than zero

B

more than zero

C

one

D

infinite

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Q37

Which of the following solids shows hydrogen bonding

A

ionic

B

metallic

C

covalent

D

molecular

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Q38

Enzymes are _____ in nature.

A

Proteins

B

Carbohydrates

C

Lipids

D

Nucleic acid

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Q39

Critical pressure of Argon(Ar) is

A

48 atm

B

33.5atm

C

111.5atm

D

73. atm

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Q40

PV/nRT for an ideal gas is called

A

expansion factor

B

depression factor

C

compressibility factor

D

diffusion factor

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Q41

Which one can form complex?

A

Na

B

Cr

C

Li

D

K

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Q42

The most common positive ions are formed by the atoms

A

non metals

B

metals

C

noble gases

D

Hydrogen

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Q43

Which of the following reaction takes place when acetone reacts with HCN ?

A

Electrophilic addition

B

Nucleophilic elimination

C

Nucleophilic addition

D

Electrophilic addition



Q44

Why Cr shows $3d^5 4s^1$ configuration instead of $3d^4 4s^2$?

A

Because it is transition element

B

Because it shows different oxidation states

C

Because of extra stability of half filled d^5 system

D

Because it is typical transition element

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Q45

Which of the following can not be prepared directly from acetic acid ?

A

Ethyl acetate

B

Acetamide

C

Acetyl Halide

D

Acetic anhydride

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Q46

80% of ammonia produced by Haber's process is used in manufacturing

A

Explosives

B

polymers

C

fertilizers

D

All of these

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Q47

Sc is mostly exist in which of the following oxidation state?

A

2

B

1

C

3

D

0

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Q48

When ethyl alcohol is oxidized with potassium dichromate, which product is formed?

A

Acetic acid

B

Butanoic acid

C

Benzoic acid

D

No reaction takes place



Q49

When a nucleophilic reagent attacks on alcohols

A

C - O bond breaks

B

O - H bond breaks

C

increase in acidity

D

Dehydration occurs

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Q50

During the nomenclature of Alkyl halides, halogens are named as _____?

A

Substituents

B

Parent name

C

Ligand

D

Longest chain

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Q51

Which of the following are the products of catalytic oxidation of methane?

A

$\text{CO}_2, \text{H}_2\text{O}$

B

$\text{CO}, \text{H}_2\text{O}$

C

CO_2, H_2

D

CH_3OH



Q52

In diaphragm cell, hydrogen is discharged by the reduction of

A

Water

B

HCl

C

Na⁺

D

NaCl

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Q53

The energy of photons related to

A

frequency

B

wave length

C

wave number

D

all of these

[< Previous Question](#)[Next Question >](#)



Q54

Which isomer of hydroxy benzene sulphonic acid is formed in greater ratio when phenol reacts with sulphuric acid at 20 °C?

A

Ortho

B

Para

C

Both ortho and para in equal ratio

D

ortho-para product



Question 55/210

Q55

What is the Optimum temperature for working of enzyme in human body?

A

40°C

B

35°C

C

37°C

D

32°C

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Q56

Density of ice is _____?

A

Higher than water

B

Lower than water

C

Similar to water

D

Higher the $1.59/\text{cm}^3$ [< Previous Question](#)[Next Question >](#)



Question 57/210

Q57

The statement; energy of system and surrounding is conserved, is related to which law of thermodynamic?

A

1st law

B

2nd law

C

3rd law

D

None of these

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Q58

Which of the following product is formed when aldol product is heated?

A

Rearrangement

B

Dehydration

C

Decomposition

D

All of these

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Q59

Which of the following is an Isomorph of Copper

A

Zn

B

Cd

C

Ag

D

Mn

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Q60

The Extension of structure in a crystalline solid is not

A

Regular

B

Geometrical

C

Three-Dimensional

D

None of these.

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Q61

Which of the following has least polarizability ?

A

NH_3

B

H_2O

C

HF

D

CH_4

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Q62

$\text{S}_{\text{N}}1$ reaction is a _____?

A

Multistep reaction

B

Two step reaction

C

Concerted reaction

D

3 step reaction

◀ Previous Question

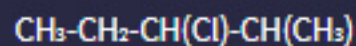
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Q63

Which one of the following is the correct IUPAC name of 2-Chloro,3-methylpentane ?

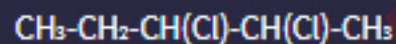
A



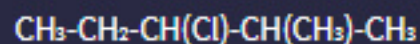
B



C



D

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Question 64/210

Q64

The mole fractions of a gas multiplied by the total pressure of the mixture is called __ of a gas

A

partial volume

B

partial pressure

C

partial temperature

D

number of moles

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Q65

The bond b/w the two atoms is non polar ,if the E.N difference is

A

1.7

B

zero

C

1

D

2

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Q66

Isoelectronic species have same

A

electronic configuration

B

Ionic size

C

Reactivity

D

PH

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Question 67/210

Q67

Hydrolysis of Tertiary Butyl bromide gives

A

Carboxylic Acid

B

Alcohol

C

Aldehyde

D

Ketone

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Q68

Phospho-glyceromutases are example of:

A

Lyases

B

Hydrolases

C

Ligases

D

Transferases

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Question 69/210

Q69

urea belong to which class of compound

A

imides

B

amides

C

amines

D

carboxylic acid

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Q70

When are the prefixes ortho, para, and meta used?

A

In alkynes to identify the position of triple bond

B

In arenes to identify the position first substitution

C

In arenes to identify the position second substitution

D

In all hydrocarbons to identify the position functional group

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Q71

The highly complex duct system in male is called:

A

Scrotum

B

seminiferous tubules

C

Prepuce

D

Epididymis

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Question 72/210

Q72

Which factors affect the female reproductive cycle?

A

Malnourishment

B

emotional stress

C

Both A and B

D

None of these

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Q73

For a single gene trait, a number of genetic disorders are caused when an individual inherits ?

A

two dominant alleles

B

one dominant allele

C

one recessive allele

D

two recessive alleles



Question 74/210

Q74

A chemical component that is NOT found in all viruses is:

A

protein

B

Lipids

C

DNA

D

RNA

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Question 75/210

Q75

Centipedes belong to class _____ of arthropoda.

A

Arachnida

B

Insecta

C

Cephalopoda

D

Myriapoda

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Q76

The shape of gray matter is:

A

Spherical

B

Butterfly

C

Mosquito

D

Rectangular

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Q77

Which Of the following is not the characteristic of mitochondria?

A

It contains F1 particles

B

It is involved in the synthesis of protein

C

It is a self replicating organelle

D

Number of mitochondria is constant

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Q78

In mixed inhibition, the inhibitor binds on the enzyme ?

A

allosterically

B

active site

C

doesn't bind on the enzyme

D

binds on the substrate

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Q79

In non-competitive inhibition, the quantity which remains same as the reaction proceed is?

A

 V_{max}

B

 K_m

C

 K_o

D

 V_o [< Previous Question](#)[Next Question >](#)



Question 80/210

Q80

Lack of symmetry is identified in which group of animals?

A

Protozoa

B

Porozoa

C

Parazoa

D

Coelomates

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Q81

The division of cocci in three planes results in formation of a

A

tetrad

B

sarcina

C

grape like clusters

D

All of Above

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Q82

The first actin spectrum was obtained by?

A

T.W.Engelmann

B

Malleus

C

T W Inws

D

W Stapes

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Question 83/210

Q83

First Actions spectrum was obtained by using?

A

Algae

B

Fungi

C

Bacteria

D

Spirogyra

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Q84

Which of the following is true of troponin and tropomyosin?

A

Troponin binds to myosin and tropomyosin binds to actin

B

Tropomyosin binds to actin and prevents the myosin head from binding to actin

C

both a and b

D

none of these

[< Previous Question](#)[Next Question >](#)



Q85

A chromosome in which a centromere stays at one end is called?

A

metacentric

B

telocentric

C

acrocentric

D

all of these

[< Previous Question](#)[Next Question >](#)



Q86

Which of the following is NOT a function of Smooth Endoplasmic Reticulum (SER)?

A

Synthesis of steroid hormones from cholesterol.

B

Detoxification of harmful drugs.

C

Synthesis of phospholipids for plasma membrane.

D

Synthesis of membrane proteins.



Question 87/210

Q87

Which one forms the raw material for coenzymes?

A

vitamins

B

carbohydrates

C

lipids

D

proteins

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Q88

Which of the following is a water soluble vitamin?

A

riboflavin

B

vitamin c

C

niacin

D

all of these

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Question 89/210

Q89

which cells regulate the opening and closing of the stroma?

A

neutrophil cells

B

basophil cells

C

mesophyll cells

D

guard cells

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Q90

What is the role of the sarcoplasmic reticulum prior to a muscle contraction?

A

It actively pumps calcium ions into its lumen

B

It releases calcium ions by active transport

C

It creates the proteins needed to cover the actin filaments

D

It releases calcium once an action potential reaches the sarcolemma



Question 91/210

Q91

The clear fluid present in the anterior chamber is called?

A

optic humor

B

spot humor

C

vitreous humor

D

aqueous humor

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Question 92/210

Q92

Skeletal muscles are:

A

voluntary

B

Involuntary

C

Both A and B

D

None of these

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Q93

Molecular formula of chlorophyll a is?

A

 $C_{55}H_{10}O_4N_6Mg$

B

 $C_{55}H_{70}O_6N_5Mg$

C

 $C_{55}H_{71}O_6N_4Mg$

D

 $C_{55}H_{72}O_5N_4Mg$ [< Previous Question](#)[Next Question >](#)



Q94

In nature, Garden pea is which of the following?

A

Cross fertilized

B

Cross pollinated

C

Self-fertilized

D

none of these

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Question 95/210

Q95

Another name for the sex cell is:

A

hormone

B

gamete

C

zygote

D

testicle

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Question 96/210

Q96

Where does the ovum receive the sperm?

A

animal pole

B

vegetal pole

C

both a and b

D

none of these

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Question 97/210

Q97

actin and myosin are the basic proteins involved in contractile machinery of our body to which type of proteins do they belong?

A

Globular

B

Functional

C

Fibrous

D

both a and b

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Question 98/210

Q98

A man with type A- blood and a woman with type AB+ blood have a child. Which blood type is impossible for that child to have?

A

A-

B

B-

C

AB+

D

O-

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Question 99/210

Q99

The organs of locomotion in annelids are which of the following?

A

Muscles

B

Hydrostatic skeleton

C

Parapodia

D

Setae

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Q100

Water vapor exits and CO₂ enters a leaf through the

A

stomata

B

grana

C

porphyrin ring

D

photons

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Q101

A cell without a cell wall is termed as?

A

tonoplast

B

protoplast

C

symplast

D

epiblast

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Question 102/210

Q102

The Induced fit model was introduced by Koshland in which of the following year?

A

1960

B

1961

C

1959

D

1966

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Q103

Which of the following scientists hypothesized that organisms can pass down traits acquired during their lifetimes?

A

Lamarck

B

Darwin

C

Mendel

D

Linnaeus

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Q104

Which of the following statements correctly describes the tobacco mosaic virus (TMV)?

A

RNA virus

B

DNA Virus

C

Bacteriophage

D

DSDNA Virus

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Q105

Which structure of protein gives information about number and sequence of amino acids in it?

A

primary structure

B

secondary structure

C

tertiary structure

D

quaternary structure

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Q106

When was the Tobacco mosaic virus successfully crystalized?

A

1935

B

1930

C

1932

D

1920

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Question 107/210

Q107

Which of the following molecule facilitate the entry of HIV in human body

A

Glycoprotein

B

Liposomes

C

polysaccharides

D

lipopolysaccharides

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Q108

What is the most common fuel of energy for cells?

A

Protein

B

lipid

C

carbohydrate

D

none of these

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Q109

Myosin filaments are close to how many times thick as actin filament?

A

3 times

B

6 times

C

4 times

D

8 times

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Question 110/210

Q110

In human only one ovum is usually discharged from the ovary at one time this phenomenon is called?

A

ovulation

B

menstruation

C

oestrous

D

all of these

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Q111

The ultimate source of all the change is?

A

migration

B

mutation

C

genetic drift

D

selection

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Q112

The oldest mineral discovered so far is which of the following, which dates back to 4.4 billion years.

A

iron

B

zircon

C

diamond

D

cadmium

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Q113

Which of the following is not a true characteristic of gametocytes?

A

Male gametocytes are called spermatocytes

B

Gametocytes can divide by mitosis into other gametocytes

C

Female gametocytes are called oocytes

D

They are eukaryotic somatic cells



Q114

Porphyromonas gingivalis is a Gram-negative bacterium, found in the oral cavity, is negatively affected by the presence of oxygen. What term best describes this bacteria?

A Facultative anaerobe

B Aerotolerant anaerobe

C Obligate aerobe

D Obligate anaerobe

◀ Previous Question

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Q115

The process of inspiration occurs as:

A

Lungs pull air inside

B

Passive transport of air takes place

C

Passive expansion of air takes place

D

Air is pushed inside



Question 116/210

Q116

When a female ovulates, in what phase of division is the oocyte?

A

Anaphase I

B

Prophase I

C

Metaphase I

D

Metaphase II

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Question 117/210

Q117

The replication of the HIV virus nucleic acid depends on?

A

replicase

B

reverse transcriptase

C

transcriptase

D

reverse replicase

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Q118

The optimum pH for the functioning of pancreatic lipase is?

A

8

B

9

C

7

D

6

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Q119

The haploid number of chromosomes in the human eggs and sperms are?

A

22

B

23

C

21

D

24

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Question 120/210

Q120

Which brain part is responsible for the formation of long term memory?

A

Medulla

B

Thalamus

C

Hippocampus

D

Corpus callosum

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Next Question



Q121

The bronchitis is of types?

A

2

B

3

C

4

D

5

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Q122

Photosynthesis is process in which _____ compounds of carbon and hydrogen are reduced to carbohydrate like (glucose) using light energy.

A

Organic

B

Energy poor

C

energy rich

D

Reduced

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Q123

Absciscic acid promotes flowering in short day plants and inhibits in long day plants, which of the following is antagonistic to absciscic acid in terms of flowering?

A

gibberellins

B

cytokinins

C

auxins

D

ethene



Q124

Which of the following is synthesized by free floating ribosomes of cytoplasm in humans?

A

DNA polymerase

B

salivary amylase

C

pancreatic amylase

D

DNA helicase

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Q125

Watt-hour measures _____

A

current

B

electrical energy

C

power

D

voltage

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Q126

Non-inverting amplifier circuits have

A

A very high input impedance

B

A very low input impedance

C

A low output impedance

D

None of the above

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Q127

An object is travelling in a circle at constant speed. Its angular velocity is:

A changing

B the same

C increasing

D decreasing

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Q128

Isotopes means addition of additional _____ in same proton number

A

protons

B

electrons

C

neutrons

D

all of them

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Q129

Specific heat of water is

A

 1 J/K.g

B

 4.18 J/Kg.K

C

 4180 J/kg.K

D

 2090 J/kg.K [< Previous Question](#)[Next Question >](#)



Q130

The phenomenon of polarization of light reveals that light waves are:....

A

transverse waves

B

longitudinal waves

C

mechanical waves

D

none of these

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Q131

If the direction of the field and area vector is opposite then field is

A

positive

B

zero

C

negative

D

none of these

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Q132

When total work done on a particle is positive then

A

KE remain constant

B

momentum increases

C

KE decreases

D

all of these

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Q133

1 rutherford is equal to

A

 10^4 Bq

B

 10^6 Bq

C

 10^7 Bq

D

 10^5 Bq[< Previous Question](#)[Next Question >](#)



Q134

_____ relationship exists between current and voltage in terms of Ohm's law

A

Non linear

B

Varying

C

Linear

D

None of them

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Q135

For a 1 efficient step down transformer

A

voltage in primary and secondary are equal

B

current in primary and secondary are equal

C

input power is same as the output power

D

output power is zero



Q136

A horizontal line in displacement-time graph represents:...

A

uniform accelerated motion

B

motion with constant velocity

C

motion with constant speed

D

body at rest

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Q137

What does the constant n represent in the equation of state for an ideal gas $PV=nRT$?

A

number of atoms in the gas

B

number of moles of the gas

C

number of nucleons

D

number of molecules of gas

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Q138

The oscillating object overshoots the rest position due to:

A

restoring force

B

inertia

C

gravitational potential energy

D

elastic potential energy

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Question 139/210

Q139

Which among the following phenomenon shows particle nature of light?

A

Photoelectric effect

B

Interference

C

Polarization

D

Matter waves

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Q140

The phenomenon of radioactivity is

A

Nuclear process does not depend on external factors

B

increased on applied pressure

C

exothermic change which increase and decrease with temperature

D

none of these



Q141

When the amount of work done is 33 cal and internal energy is 167 cal then heat supplied is

A

167 cal

B

175 cal

C

500 cal

D

600 cal

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Question 142/210

Q142

A transformer steps down from 200V to 50 V. It has secondary winding = 40 turns, then windings in primary coil are

A

150

B

160

C

170

D

200

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Q143

Some ice, at its melting point, is added to m kg of water at initial temperature 290 K. If c is the specific heat capacity of water and L is latent heat of fusion of ice. Ice melts completely. Final temperature of the water is 273 K. What is the minimum mass of ice that is required?

A

$$17mc \text{ ----- } L$$

B

$$L \text{ ----- } 17mc$$

C

$$17m \text{ ----- } Lc$$

D

$$290m \text{ ----- } Lc$$



Q144

Which of the following statement is correct about infrared radiation and X-rays?

A

Radio waves has frequency larger than X-rays but less than infrared waves

B

infrared radiation travels faster than X-rays in vacuum

C

infrared radiation has lower frequency than X-rays

D

infrared waves can not be diffracted like X-rays



Q145

A constant force of 10 N is applied on a body which causes displacement of 12 cm what will be the work done

A

120 J

B

12 J

C

1.2 J

D

18 J

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Q146

Self inductance varies number of turns in coil as

A

 N

B

 N^3

C

 N^2

D

 $1/N$ [< Previous Question](#)[Next Question >](#)



Q147

The magnetic field is parallel to a surface, then the magnetic flux through the surface is

A

Zero

B

small but not zero

C

infinite

D

large but not infinite



Q148

Polarization explains light is

A

electric in nature

B

magnetic in nature

C

both a & B

D

none of these

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Q149

A thermodynamic system undergoes a process in which its internal energy decreases by 300 J. If at the same time 120 J of work is done on the system, find the heat lost by the system

A

-420 J

B

420 J

C

80 J

D

-80 J

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Q150

Which radiation passes through black body

A

alpha

B

gamma

C

beta

D

white

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Q151

When a wave comes across the boundary of two media, a part of it is reflected back. Which statement is true about reflected wave:

- A its wavelength changes depending on the nature of the boundary
- B its frequency changes depending on the nature of the boundary
- C its amplitude increases depending on the nature of the boundary
- D its phase may changes depending on the nature of the boundary



Q152

What is the FPS unit of displacement

A

kilometer

B

meter

C

Foot

D

pound

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Q153

Which isotope has highest momentum when moving with same velocity

A

Protium

B

deuterium

C

tritium

D

all of these have same momentum

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Q154

Work is done by the applying force when

A

applied force is variable

B

applied force is perpendicular to the motion

C

applied force generated motion

D

applied force is constant



Q155

A steel ball of mass 5 g is thrown downward with velocity 10 m/s from height 19.5m. It penetrates sand by 50 cm. The change in mechanical energy will be: ($g = 10 \text{ m/s}^2$)

A

1J

B

1.25J

C

1.5J

D

1.75J

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Q156

Electrical power of a battery is defined as the rate of

A

electrical energy consumed by the battery

B

Electrical energy transferred by the battery

C

both

D

none of these

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Q157

Farad is defined as:....

A

newton / volt

B

coulomb / volt

C

coulomb / joule

D

coulomb / newton

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Question 158/210

Q158

Centre tape rectifier circuit consists of _____ diode

A

1

B

200%

C

300%

D

400%

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Q159

7 Radian is equal to ____ degree approximately

A

300

B

400

C

500

D

none of these

[< Previous Question](#)[Next Question >](#)



Q160

Newton's first law applicable only in

A

accelerating frames

B

inertial frame

C

both a) and b)

D

non-inertial frames

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Q161

Mean life of a radioactive element is 1 year. Then its half life (in years) is.....

A

0.8

B

1

C

0.693

D

0.5

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Q162

Which of the following rectifier uses wheatstone bridge to rectify signal

A

half wave

B

full wave

C

bridge

D

All of the above

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Q163

For ideal polyatomic gas molar specific heat is equal to

A

24.9 J/mol.K

B

12.9 J/mol.K

C

15 J/mol.K

D

16 J/mol.K

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Q164

If $^{238}\text{Pu}_{94}$ decay an alpha particle the new atomic number and mass number are

A

234,90

B

234,92

C

231,97

D

none of these

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Q165

A real transformer does not change

A

voltage level

B

current level

C

power level

D

frequency level

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Question 166/210

Q166

What is the power of a bulb if it is operated at 220V and the current in the circuit is 1.5 Amp

A

330 watt

B

430 watt

C

530 watt

D

500 watt

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Q167

The charge on gamma rays is

A

 $1+$

B

 $1-$

C

0

D

none of these

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Q168

instantaneous velocity for a displacement function $d(t) = 2 - 2t$ at any time is given by

A

 $-2t$

B

 $2t$

C

 2

D

 -2



Q169

A container is filled with oxygen and helium at the same temperature. The molar mass of oxygen is 32 g/mol and that of helium is 4 g/mol. What is the ratio: average speed of oxygen molecules -----
----- average speed of helium molecules

A

 $1 \text{ --- } \sqrt{8}$

B

 $\sqrt{8}$

C

 $1 \text{ --- } 8$

D

8



Q170

A monoenergetic electron beam with an electron speed of 5.20×10^6 m/s is subject to a magnetic field of 1.30×10^{-4} T normal to the beam velocity. What is the radius of the circle traced by the beam, given e/m for electron equals 1.76×10^{11} C/kg

A

22.7 cm

B

21.3 cm

C

20 cm

D

21.9 cm



Q171

A cyclist come to skidding stop in 10 m, the force on the cycle due to the road is 200 N and opposite to the motion. how much work does the cycle do on the road

A

2000 J

B

-2000 J

C

0

D

200 J

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Q172

A stationary wave is formed in a pipe which is open at both ends. If length of pipe is 10 cm, then what is the maximum possible wavelength of the wave.

A

20 cm

B

5 cm

C

10 cm

D

30 cm



Q173

It is the duty of every citizen (A) to do his utmost (B) to defend the hardly won (C) /freedom of the country. (D)

A

It is the duty of every citizen

B

to do his utmost

C

to defend the hardly won

D

freedom of the country.

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Q174

Choose the correct sentence.

A

Why can't I speak to Ms. Parvin today!

B

Why can't I speak to Ms. Parvin today?

C

Why cant I speak to Ms. Parvin today?

D

Why can't i speak to Ms. Parvin today?



Question 175/210

Q175

Did you _____ this pen?

A

break

B

broke

C

broken

D

breaking

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Question 176/210

Q176

How we _____ to ageing is a choice we must make wisely.

A

respond

B

absolve

C

discharge

D

overlook

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Question 177/210

Q177

I borrowed ____ pencil from your pile of pencils and pens.

A

a

B

an

C

the

D

no article

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Q179

Your hands and feet _____ nearly half the bones in your body.

A

contained

B

contains

C

contain

D

containing

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Q180

You will find more information in the _____.

A

attached to file

B

attached file

C

attachment file

D

file what is attached

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Q181

Choose the correct sentence.

A

Charles Dickens wrote 'A Tale of Two Cities', 'Little Dorrit', 'A Christmas Carol' and 'Bleak House' amongst others.

B

Charles dickens wrote 'A Tale of Two Cities', 'Little Dorrit', 'A Christmas Carol' and 'Bleak House' amongst others.

C

Charles Dickens wrote 'A Tale of two cities', 'Little dorrit', 'A Christmas Carol' and 'Bleak House' amongst others.

D

Charles Dickens wrote 'A Tale of Two Cities' 'Little Dorrit' 'A Christmas Carol' and 'Bleak House' amongst others.



Question 182/210

Q182

My friend has been living _____ Karachi for two years.

A

on

B

at

C

in

D

across

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Question 183/210

Q183

Choose the correct spelling of the word

A

nite

B

nigt

C

nighte

D

night

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Q184

He could not sleep because he was _____ (bite) by mosquitoes.

A

bit

B

bite

C

bitten

D

biting

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Q185

Choose the correct sentence.

A

Our head teacher is called mrs Amjad.

B

Our head teacher is called Mrs. Amjad.

C

Our head teacher is called Mrs Amjad.

D

Our head teacher is called Mrs. Amjad!

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Q186

How much does she make on her job? - That's none of your _____ !

A

business

B

decision

C

information

D

role

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Question 187/210

Q187

_____ is a macromolecule found in blood

A

Hemoglobin

B

plasma

C

creatinine

D

plasmids

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Q188

As Reaction proceeds the concentration of reactants

A

decreases

B

Remain unchanged

C

increases

D

cannot be predicted

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Q189

The gas is at 3 atm, what will be the pressure of a gas if it expands three times

A

1 atm

B

3atm

C

6atm

D

9atm

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Q190

The method which is used on industrial scale for production of alcohol from alkene ?

A

Hydrohalogenation of alkenes

B

Dehydration of alkenes

C

Hydration of alkenes

D

Hydroxylation of alkenes

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Q191

Instantaneous rate of reaction is the rate at any

A

At Equilibrium

B

one instant

C

Given Temperature

D

Given Pressure

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Q192

Which catalyst is used when ethanol react with ammonia to produce ethyl amine?

A

 ZnCl_2

B

 $\text{C}_6\text{H}_5\text{N}$

C

 Al_2O_3

D

 ThO_2 [< Previous Question](#)[Next Question >](#)



Question 193/210

Q193

What is the most important structure between body and brain?

A

Neck

B

Spinal cord

C

Blood vessels

D

Skeleton

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Q194

Which statement correctly describes the alimentary canal of hydra?

A

The alimentary canal is formed from the endodermal cells.

B

The alimentary canal has a single opening.

C

The alimentary canal is sac-like.

D

All of the above.



Question 195/210

Q195

Out of the 6 molecules of G3P, how many molecules are used to make glucose?

A

1

B

2

C

3

D

6

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Question 196/210

Q196

A compound produced as a result of a chemical reaction of an alcohol with an acid in which water molecule is released is called?

A

monosaccharide

B

fatty acid

C

nucleic acid

D

neutral lipid

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Q197

If muscle contracts upon stimulation, calcium ions bind to _____, which exposes the binding sites for the myosin cross-bridges to attach to.

A

actin

B

myosin

C

troponin

D

sarcomere



Q198

If two point charges of charge q_1 and q_2 are placed at distance d . The force between them is proportional to:...

A

 d

B

 d^2

C

 $1/d$

D

 $1/d^2$ [< Previous Question](#)[Next Question >](#)



Q199

A car accelerates from 0 to 72 km/h in 5 seconds. If it has wheels of diameter 50 cm. the angular acceleration of its wheels is

A

 1.6 rad/s^2

B

 8 rad/s^2

C

 16 rad/s^2

D

 160 rad/s^2 [< Previous Question](#)[Next Question >](#)



Q200

Specific latent heat of fusion of ice is 334 J/g. How much energy is needed to melt 100 g of ice at 0°C.

A

33.4 J

B

33.4 kJ

C

3.34 J

D

3.34 kJ

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Q201

A set of Atoms in an excited state decays

A

in any general state with lower energy

B

In any state when excited by electric field

C

In any state when excited by magnetic field

D

None of these

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Q202

The terminal potential difference of a battery is greater than its emf when

A

The internal resistance of a battery is infinite

B

The internal resistance of a battery is zero

C

The battery is charged

D

The battery is discharged



Q203

The units for absorption power is

A

meter

B

second

C

henry

D

none of these

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Q204

If elements have high ionization energy value then it means they belong to

A

metals

B

non metals

C

metalloid

D

noble gases

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Q205

The Venus flower basket is also known as which of the following?

A

Sycon

B

Leucosolenia

C

Spongilla

D

Euplectella

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Q206

A galvanometer acting as a voltmeter will have a coil with

A

a high resistance in parallel

B

a high resistance in series

C

a low resistance in parallel

D

a low resistance in series



Q207

Standard Electrode Potential for Hydrogen is taken as

A

Standard

B

Zero Volts

C

Unity

D

Both A and B

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Q208

The tires on a bicycle have a diameter of 24 inches. If the tires are turning at a rate of 50 revolutions per minute, determine the bicycle's speed in miles per hour (mph).

A

3.1

B

6.3

C

3.9

D

3.6

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Q210

Enzymes are globular proteins because:

A

They have a primary structure.

B

They have a secondary structure.

C

They have a tertiary structure.

D

All of the above.



Q210

Enzymes are globular proteins because:

A

They have a primary structure.

B

They have a secondary structure.

C

They have a tertiary structure.

D

All of the above.